



SEQUENCE LISTING

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<120> INDUCING CELLULAR IMMUNE RESPONSES TO
HEPATITIS B VIRUS USING PEPTIDE AND NUCLEIC ACID
COMPOSITIONS

<130> 2060.0060008

<140> US 09/350,401

<141> 1999-07-08

<150> US 08/344,824

<151> 1994-11-23

<150> US 08/278,634

<151> 1994-07-21

<150> US 08/347,610

<151> 1994-12-01

<150> US 08/159,339

<151> 1993-11-29

<150> US 08/103,396

<151> 1993-08-06

<150> US 08/027,746

<151> 1993-03-05

<150> US 07/926,666

<151> 1992-08-07

<150> US 09/239,043

<151> 1999-01-27

<150> US 08/205,713

<151> 1994-03-04

<150> US 08/159,184

<151> 1993-11-29

<150> US 08/073,205

<151> 1993-06-04

<150> US 08/027,146

<151> 1993-03-05

<150> US 09/189,702

<151> 1998-11-10

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Gly Pro Cys Ala Leu Arg Phe Thr Ser Ala
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<210> 1846
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<210> 1847
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1 5 10

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Trp	Met	Cys	Leu	Arg	Arg	Phe	Ile	Ile	Phe	Leu
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<210> 2024

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<400> 2024

Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu	Tyr
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<210> 2025

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<400> 2025

Tyr	Leu	His	Thr	Leu	Trp	Lys	Ala	Gly	Ile	Leu
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<210> 2026

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<400> 2026

Tyr Leu Pro Leu Asp Lys Gly Ile Lys Pro Tyr
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<210> 2027

<211> 11

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Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile
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Ala Ser Phe Cys Gly Ser Pro Tyr
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Asp Asn Ser Val Val Leu Ser Arg Lys Tyr
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<210> 2030

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Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr
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<210> 2031

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Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr
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<210> 2032

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Gly Arg Glu Thr Val Leu Glu Tyr
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<400> 2033

Gly Tyr Ser Leu Asn Phe Met Gly Tyr
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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr
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<210> 2035

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Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr
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<400> 2037
Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr
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Leu Thr Phe Gly Arg Glu Thr Val Leu Glu Tyr
1 5 10

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<400> 2049
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<400> 2050
Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
1 5 10

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<400> 2051
Tyr Pro Ala Leu Met Pro Leu Tyr
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<210> 2052
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<400> 2052
Tyr Ser Leu Asn Phe Met Gly Tyr
1 5

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<400> 2053
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<210> 2054
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<400> 2054

Ala Ala Cys Phe Ala Arg Ser Arg Ser Gly Ala
1 5 10

<210> 2055
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<210> 2056
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<400> 2056
Ala Ala Pro Phe Thr Gln Cys Gly Tyr Pro Ala
1 5 10

<210> 2057
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Ala Cys Phe Ala Arg Ser Arg Ser Gly Ala
1 5 10

<210> 2058
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Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu Ala
1 5 10

<210> 2059
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<210> 2061
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<400> 2061
Ala Phe Pro His Cys Leu Ala Phe Ser Tyr
1 5 10

<210> 2062
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Ala Phe Ser Ser Ala Gly Pro Cys Ala
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<210> 2063
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<400> 2063
Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg
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<210> 2064

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<210> 2065
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Ala Phe Thr Phe Ser Pro Thr Tyr Lys
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<210> 2066
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<400> 2066
Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala
1 5 10

<210> 2067
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1 5 10 15

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<400> 3042
Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val Arg Arg Ala
1 5 10 15

<210> 3043
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<400> 3043
Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val
1 5 10 15

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<400> 3044
Leu Lys Val Phe Val Leu Gly Gly Cys Arg His Lys Leu Val Cys

1 5 10 15

<210> 3045

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<400> 3045

Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
1 5 10 15

<210> 3046

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<400> 3046

Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp
1 5 10 15

<210> 3047

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<400> 3047

Asn Arg Pro Ile Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu
1 5 10 15

<210> 3048

<211> 15

<212> PRT

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<400> 3048

Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe
1 5 10 15

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Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met
1				5				10						15

<210> 3050

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<400> 3050

Ala	Lys	Leu	Ile	Gly	Thr	Asp	Asn	Ser	Val	Val	Leu	Ser	Arg	Lys
1				5				10						15

<210> 3051

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<400> 3051

Pro	Leu	Pro	Ile	His	Thr	Ala	Glu	Leu	Leu	Ala	Ala	Cys	Phe	Ala
1				5				10						15

<210> 3052

<211> 15

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<400> 3052

Arg	Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile
1				5				10						15

<210> 3053

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<400> 3053

Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu
1				5				10						15

<210> 3054

<211> 15

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<400> 3054
Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro Ser
1 5 10 15

<210> 3055
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<400> 3055
Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu Thr Thr Val Val Arg
1 5 10 15

<210> 3056
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<400> 3056
Cys Thr Cys Ile Pro Ile Pro Ser Ser Trp Ala Phe Ala Arg Phe
1 5 10 15

<210> 3057
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<400> 3057
Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala
1 5 10 15

<210> 3058
<211> 15
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<400> 3058
Ala Glu Leu Leu Ala Ala Cys Phe Ala Arg Ser Arg Ser Gly Ala
1 5 10 15

<210> 3059

<211> 15

<212> PRT

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<400> 3059

Pro	His	Cys	Leu	Ala	Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly
1				5				10					15	

<210> 3060

<211> 15

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<400> 3060

Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val	Val
1				5				10					15	

<210> 3061

<211> 15

<212> PRT

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<400> 3061

Ala	Ser	Lys	Leu	Cys	Leu	Gly	Trp	Leu	Trp	Gly	Met	Asp	Ile	Asp
1				5				10					15	

<210> 3062

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<400> 3062

Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr
1				5				10					15	

<210> 3063

<211> 15

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<400> 3063

Arg	Asp	Val	Leu	Cys	Leu	Arg	Pro	Val	Gly	Ala	Glu	Ser	Arg	Gly
1				5					10					15

<210> 3064

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<400> 3064

Arg	Pro	Gly	Leu	Cys	Gln	Val	Phe	Ala	Asp	Ala	Thr	Pro	Thr	Gly
1				5					10					15

<210> 3065

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<400> 3065

Pro	Gln	Ser	Leu	Asp	Ser	Trp	Trp	Thr	Ser	Leu	Asn	Phe	Leu	Gly
1				5					10					15

<210> 3066

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<400> 3066

Arg	Asp	Leu	Leu	Asp	Thr	Ala	Ser	Ala	Leu	Tyr	Arg	Glu	Ala	Leu
1				5					10					15

<210> 3067

<211> 15

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<400> 3067

Trp	Leu	Ser	Leu	Asp	Val	Ser	Ala	Ala	Phe	Tyr	His	Ile	Pro	Leu
1				5					10					15

<210> 3068

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<400> 3068

Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys	Pro	Leu
1				5					10					15

<210> 3069

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<400> 3069

Ala	Gly	Pro	Leu	Glu	Glu	Glu	Leu	Pro	Arg	Leu	Ala	Asp	Glu	Gly
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<210> 3070

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<400> 3070

Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu
1				5					10					15

<210> 3071

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<400> 3071

Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val	Gln	His	Leu	Glu	Ser	Leu
1				5					10					15

<210> 3072

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<400> 3072

Val	Gly	Leu	Leu	Gly	Phe	Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly	Tyr
1				5					10					15

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<400> 3073
Pro Ile Ile Leu Gly Phe Arg Lys Ile Pro Met Gly Val Gly Leu
1 5 10 15

<210> 3074
<211> 15
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<400> 3074
Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp Thr His
1 5 10 15

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<400> 3075
Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe
1 5 10 15

<210> 3076
<211> 15
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<400> 3076
His Leu Pro Leu His Pro Ala Ala Met Pro His Leu Leu Val Gly
1 5 10 15

<210> 3077
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<400> 3077

Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly
1 5 10 15

<210> 3078

<211> 15

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<400> 3078

Lys Arg Arg Leu Lys Leu Ile Met Pro Ala Arg Phe Tyr Pro Asn
1 5 10 15

<210> 3079

<211> 15

<212> PRT

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<400> 3079

Glu Ile Arg Leu Lys Val Phe Val Leu Gly Gly Cys Arg His Lys
1 5 10 15

<210> 3080

<211> 15

<212> PRT

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<400> 3080

Ser Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val
1 5 10 15

<210> 3081

<211> 15

<212> PRT

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<400> 3081

Ile Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala
1 5 10 15

<210> 3082

<211> 15

<212> PRT

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<400> 3082

Phe	Pro	Trp	Leu	Leu	Gly	Cys	Ala	Ala	Asn	Trp	Ile	Leu	Arg	Gly
1				5					10					15

<210> 3083

<211> 15

<212> PRT

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<400> 3083

Ile	Val	Gly	Leu	Leu	Gly	Phe	Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly
1				5					10					15

<210> 3084

<211> 15

<212> PRT

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<400> 3084

His	Gly	Gly	Leu	Leu	Gly	Trp	Ser	Pro	Gln	Ala	Gln	Gly	Ile	Leu
1				5					10					15

<210> 3085

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<400> 3085

Leu	Phe	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu
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<210> 3086

<211> 15

<212> PRT

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<400> 3086

Ser	Val	Glu	Leu	Leu	Ser	Phe	Leu	Pro	Ser	Asp	Phe	Phe	Pro	Ser
1				5					10					15

<210> 3087
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<400> 3087
Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys
1 5 10 15

<210> 3088
<211> 15
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<400> 3088
Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp
1 5 10 15

<210> 3089
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<400> 3089
Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
1 5 10 15

<210> 3090
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<400> 3090
Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr
1 5 10 15

<210> 3091
<211> 15
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<400> 3091

Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu
1 5 10 15

<210> 3092

<211> 15

<212> PRT

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<400> 3092

Ile Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly
1 5 10 15

<210> 3093

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3093

Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile Gln Ser Lys Gln
1 5 10 15

<210> 3094

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3094

Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp
1 5 10 15

<210> 3095

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3095

Gly Ile His Leu Asn Pro Asn Lys Thr Lys Arg Trp Gly Tyr Ser
1 5 10 15

<210> 3096

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3096

Asp	Glu	Gly	Leu	Asn	Arg	Arg	Val	Ala	Glu	Asp	Leu	Asn	Leu	Gly
1				5					10					15

<210> 3097

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3097

Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp	Thr	His	Lys	Val	Gly
1				5					10					15

<210> 3098

<211> 15

<212> PRT

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<400> 3098

Leu	Ser	Thr	Leu	Pro	Glu	Thr	Thr	Val	Val	Arg	Arg	Arg	Gly	Arg
1				5					10					15

<210> 3099

<211> 15

<212> PRT

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<400> 3099

Leu	Pro	Leu	Leu	Pro	Ile	Phe	Phe	Cys	Leu	Trp	Val	Tyr	Ile	Glx
1				5					10					15

<210> 3100

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3100

Val	Ala	Pro	Leu	Pro	Ile	His	Thr	Ala	Glu	Leu	Leu	Ala	Ala	Cys
1				5					10					15

<210> 3101

<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3101
Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp Lys Val Cys
1 5 10 15

<210> 3102
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3102
Cys Trp Trp Leu Gln Phe Arg Asn Ser Lys Pro Cys Ser Asp Tyr
1 5 10 15

<210> 3103
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3103
His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser Ser Ala
1 5 10 15

<210> 3104
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3104
Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly Arg Pro
1 5 10 15

<210> 3105
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3105
His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu Met

1	5	10	15
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<210> 3106
<211> 15
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<213> Artificial Sequence

<220>
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<400> 3106
Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu
1 5 10 15

<210> 3107
<211> 15
<212> PRT
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<400> 3107
Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Ile
1 5 10 15

<210> 3108
<211> 15
<212> PRT
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<220>
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<400> 3108
Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile
1 5 10 15

<210> 3109
<211> 15
<212> PRT
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<220>
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<400> 3109
Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
1 5 10 15

<210> 3110
<211> 15
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<400> 3110

Gly	Ala	His	Leu	Ser	Leu	Arg	Gly	Leu	Pro	Val	Cys	Ala	Phe	Ser
1			5					10						15

<210> 3111

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3111

Gly	Val	Gly	Leu	Ser	Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala
1			5					10						15

<210> 3112

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3112

Ser	Val	Val	Leu	Ser	Arg	Lys	Tyr	Thr	Ser	Phe	Pro	Trp	Leu	Leu
1			5						10					15

<210> 3113

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3113

Thr	Asn	Leu	Leu	Ser	Ser	Asn	Leu	Ser	Trp	Leu	Ser	Leu	Asp	Val
1			5						10					15

<210> 3114

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3114

Gly	Thr	Asn	Leu	Ser	Val	Pro	Asn	Pro	Leu	Gly	Phe	Phe	Pro	Asp
1			5						10					15

<210> 3115

<211> 15

<212> PRT
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<220>
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<400> 3115
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3116
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificially Synthesized Peptide

<400> 3116
Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr
1 5 10 15

<210> 3117
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3117
Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
1 5 10 15

<210> 3118
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificially Synthesized Peptide

<400> 3118
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp
1 5 10 15

<210> 3119
<211> 15
<212> PRT
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<220>
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<400> 3119
Gly Val Phe Leu Val Asp Lys Asn Pro His Asn Thr Thr Glu Ser
1 5 10 15

<210> 3120

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3120

Leu	Glu	Tyr	Leu	Val	Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro
1				5					10					15

<210> 3121

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3121

Glu	Ser	Arg	Leu	Val	Val	Asp	Phe	Ser	Gln	Phe	Ser	Arg	Gly	Asn
1				5					10					15

<210> 3122

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3122

Arg	Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly	Arg
1				5					10					15

<210> 3123

<211> 15

<212> PRT

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<400> 3123

Leu	Gly	Trp	Leu	Trp	Gly	Met	Asp	Ile	Asp	Pro	Tyr	Lys	Glu	Phe
1				5					10					15

<210> 3124

<211> 15

<212> PRT

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<400> 3124

Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg Glu Thr
1 5 10 15

<210> 3125

<211> 15

<212> PRT

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<400> 3125

Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
1 5 10 15

<210> 3126

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3126

Lys Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys
1 5 10 15

<210> 3127

<211> 15

<212> PRT

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<400> 3127

Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val Gln
1 5 10 15

<210> 3128

<211> 15

<212> PRT

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<220>

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<400> 3128

Lys Ile Pro Met Gly Val Gly Leu Ser Pro Phe Leu Leu Ala Gln
1 5 10 15

<210> 3129

<211> 15

<212> PRT

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<400> 3129

Pro	Ala	Ala	Met	Pro	His	Leu	Leu	Val	Gly	Ser	Ser	Gly	Leu	Ser
1				5					10				15	

<210> 3130

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<212> PRT

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<400> 3130

Pro	Gln	Ala	Met	Gln	Trp	Asn	Ser	Thr	Thr	Phe	His	Gln	Thr	Leu
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<211> 15

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<400> 3131

Leu	Ser	Ala	Met	Ser	Thr	Thr	Asp	Leu	Glu	Ala	Tyr	Phe	Lys	Asp
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<210> 3132

<211> 15

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<400> 3132

Ile	Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu	Tyr	Asn	Ile	Leu
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<210> 3133

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<400> 3133

Gly	Leu	Pro	Val	Cys	Ala	Phe	Ser	Ser	Ala	Gly	Pro	Cys	Ala	Leu
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<400> 3134
Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala
1 5 10 15

<210> 3135
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<400> 3135
Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
1 5 10 15

<210> 3136
<211> 15
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<400> 3136
Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
1 5 10 15

<210> 3137
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<400> 3137
Gln Gln Tyr Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu
1 5 10 15

<210> 3138
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<400> 3138

Pro	Asp	Arg	Val	His	Phe	Ala	Ser	Pro	Leu	His	Val	Ala	Trp	Arg
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<400> 3139

Ala	Arg	Asp	Val	Leu	Cys	Leu	Arg	Pro	Val	Gly	Ala	Glu	Ser	Arg
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<210> 3140

<211> 15

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<400> 3140

Asp	Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val	Gln	His	Leu	Glu	Ser
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<212> PRT

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<400> 3141

Leu	Pro	Lys	Val	Leu	His	Lys	Arg	Thr	Leu	Gly	Leu	Ser	Ala	Met
1				5					10					15

<210> 3142

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3142

Lys	Phe	Ala	Val	Pro	Asn	Leu	Gln	Ser	Leu	Thr	Asn	Leu	Leu	Ser
1				5					10					15

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<400> 3143

Cys	Pro	Thr	Val	Gln	Ala	Ser	Lys	Leu	Cys	Leu	Gly	Trp	Leu	Trp
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<210> 3144

<211> 15

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<400> 3144

Trp	Ala	Ser	Val	Arg	Phe	Ser	Trp	Leu	Ser	Leu	Leu	Val	Pro	Phe
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<210> 3145

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<400> 3145

Cys	Ser	Val	Val	Arg	Arg	Ala	Phe	Pro	His	Cys	Leu	Ala	Phe	Ser
1				5				10					15	

<210> 3146

<211> 15

<212> PRT

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<400> 3146

Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp	Thr	His	Lys	Val	Gly	Asn	Phe
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<210> 3147

<211> 15

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<400> 3147

Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro
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Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp Asp
1 5 10 15

<210> 3149
<211> 15
<212> PRT
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<400> 3149
Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg Glu
1 5 10 15

<210> 3150
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<400> 3150
Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser
1 5 10 15

<210> 3151
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<400> 3151
Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
1 5 10 15

<210> 3152
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<400> 3152

Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn
1 5 10 15

<210> 3153

<211> 15

<212> PRT

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<400> 3153

His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg Glu Thr Thr
1 5 10 15

<210> 3154

<211> 15

<212> PRT

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<220>

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<400> 3154

Ser Phe Pro Trp Leu Leu Gly Cys Ala Ala Asn Trp Ile Leu Arg
1 5 10 15

<210> 3155

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<212> PRT

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<400> 3155

Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His
1 5 10 15

<210> 3156

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3156

Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe
1 5 10 15

<210> 3157

<211> 15

<212> PRT

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<220>

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<400> 3157

Arg	Val	Ser	Trp	Pro	Lys	Phe	Ala	Val	Pro	Asn	Leu	Gln	Ser	Leu
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<210> 3158

<211> 15

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<400> 3158

Ala	Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val
1				5					10					15

<210> 3159

<211> 15

<212> PRT

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<400> 3159

Gln	Cys	Gly	Tyr	Pro	Ala	Leu	Met	Pro	Leu	Tyr	Ala	Cys	Ile	Gln
1				5					10					15

<210> 3160

<211> 15

<212> PRT

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<220>

<223> Artificially Synthesized Peptide

<400> 3160

Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys	Pro	Leu	Ile	Pro
1				5					10					15

<210> 3161

<211> 15

<212> PRT

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<400> 3161

Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn	Ala	Pro	Ile	Leu	Ser	Thr	Leu
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<210> 3162

<211> 15
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<400> 3162
Cys Pro Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe
1 5 10 15

<210> 3163
<211> 15
<212> PRT
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<220>
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<400> 3163
Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile
1 5 10 15

<210> 3164
<211> 15
<212> PRT
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<400> 3164
Arg Trp Gly Tyr Ser Leu Asn Phe Met Gly Tyr Val Ile Gly Ser
1 5 10 15

<210> 3165
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<400> 3165
Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp Asp Pro
1 5 10 15

<210> 3166
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<400> 3166
Phe Phe Pro Asp His Gln Leu Asp Pro

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<210> 3167

<211> 9

<212> PRT

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<400> 3167

Phe Gly Arg Glu Thr Val Leu Glu Tyr

1

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<210> 3168

<211> 9

<212> PRT

<213> Artificial Sequence

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<400> 3168

Phe Gly Val Glu Pro Ser Gly Ser Gly

1

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<210> 3169

<211> 9

<212> PRT

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<400> 3169

Phe Leu Val Asp Lys Asn Pro His Asn

1

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<210> 3170

<211> 9

<212> PRT

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<400> 3170

Ile Gly Thr Asp Asn Ser Val Val Leu

1

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<211> 9

<212> PRT

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<400> 3171

Leu Glu Glu Glu Leu Pro Arg Leu Ala
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Leu Pro Leu Asp Lys Gly Ile Lys Pro
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Leu Val Val Asp Phe Ser Gln Phe Ser
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Leu Tyr Arg Glu Ala Leu Glu Ser Pro
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Val Phe Ala Asp Ala Thr Pro Thr Gly
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Val Leu Leu Asp Tyr Gln Gly Met Leu
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<400> 3180
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1 5

<210> 3181
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<400> 3181
Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro Ala Phe Gly
1 5 10 15

<210> 3182
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<400> 3182
Cys Leu Thr Phe Gly Arg Glu Thr Val Leu Glu Tyr Leu Val Ser
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<400> 3183
Arg Arg Ser Phe Gly Val Glu Pro Ser Gly Ser Gly His Ile Asp
1 5 10 15

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<400> 3184
Gly Gly Val Phe Leu Val Asp Lys Asn Pro His Asn Thr Thr Glu
1 5 10 15

<210> 3185
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<400> 3185

Ala Lys Leu Ile Gly Thr Asp Asn Ser Val Val Leu Ser Arg Lys
1 5 10 15

<210> 3186

<211> 15

<212> PRT

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<400> 3186

Ala Gly Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala Asp Glu Gly
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<211> 15

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<400> 3187

Thr Lys Tyr Leu Pro Leu Asp Lys Gly Ile Lys Pro Tyr Tyr Pro
1 5 10 15

<210> 3188

<211> 15

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<400> 3188

Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile
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<400> 3189

Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
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Leu	Cys	Gln	Val	Phe	Ala	Asp	Ala	Thr	Pro	Thr	Gly	Trp	Gly	Leu
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Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys
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Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val
1 5 10 15

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<400> 3196
Ala His Leu Ser Leu Arg Gly Leu Pro
1 5

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<400> 3197
Phe Ser Pro Thr Tyr Lys Ala Phe Leu
1 5

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Ile Pro Trp Thr His Lys Val Gly Asn
1 5

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<400> 3199

Leu Thr Val Asn Glu Lys Arg Arg Leu
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<210> 3200

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<212> PRT

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<400> 3200

Val Gly Ala Glu Ser Arg Gly Arg Pro
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<210> 3201

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<400> 3201

Val Val Leu Ser Arg Lys Tyr Thr Ser
1 5

<210> 3202

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<400> 3202

Asp His Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala
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<400> 3203

Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys Lys Gln
1 5 10 15

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<400> 3204

Asn	Val	Ser	Ile	Pro	Trp	Thr	His	Lys	Val	Gly	Asn	Phe	Thr	Gly
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<400> 3205

Val	Gly	Pro	Leu	Thr	Val	Asn	Glu	Lys	Arg	Arg	Leu	Lys	Leu	Ile
1				5					10					15

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<400> 3206

Leu	Arg	Pro	Val	Gly	Ala	Glu	Ser	Arg	Gly	Arg	Pro	Val	Ser	Gly
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<400> 3207

Asp	Asn	Ser	Val	Val	Leu	Ser	Arg	Lys	Tyr	Thr	Ser	Phe	Pro	Trp
1				5					10					15

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<211> 10

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<223> Artificially Synthesized Peptide

<400> 3208

Cys	Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu
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<400> 3209
Arg Met Thr Gly Gly Val Phe Leu Val
1 5

<210> 3210
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<400> 3210
Leu Met Pro Phe Val Gln Trp Phe Val
1 5

<210> 3211
<211> 9
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<400> 3211
Arg Leu Thr Gly Gly Val Phe Leu Val
1 5

<210> 3212
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<400> 3212
Gly Leu Cys Gln Val Phe Ala Asp Val
1 5

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<400> 3213

Trp Leu Leu Arg Gly Thr Ser Phe Val
1 5

<210> 3214
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<400> 3214
Asn Leu Gly Asn Leu Asn Val Ser Val
1 5

<210> 3215
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<400> 3215
Tyr Leu Pro Ser Ala Leu Asn Pro Val
1 5

<210> 3216
<211> 9
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<400> 3216
Gly Leu Trp Ile Arg Thr Pro Pro Val
1 5

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<400> 3217
Arg Leu Ser Trp Pro Lys Phe Ala Val
1 5

<210> 3218
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<400> 3218
Ile Leu Gly Leu Leu Gly Phe Ala Val
1 5

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<211> 9
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<400> 3219
Arg Met Leu Thr Ile Pro Gln Ser Val
1 5

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<400> 3220
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1 5

<210> 3221
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<400> 3221
Phe Met Leu Leu Leu Cys Leu Ile Phe Leu
1 5 10

<210> 3222
<211> 10
<212> PRT
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<220>
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<400> 3222
Leu Met Leu Gln Ala Gly Phe Phe Leu Val
1 5 10

<210> 3223

<211> 10
<212> PRT
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<220>
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<400> 3223
Ser Met Leu Ser Pro Phe Leu Pro Leu Val
1 5 10

<210> 3224
<211> 10
<212> PRT
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<220>
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<400> 3224
Leu Met Leu Leu Asp Tyr Gln Gly Met Val
1 5 10

<210> 3225
<211> 10
<212> PRT
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<400> 3225
Phe Leu Gly Leu Ser Pro Thr Val Trp Val
1 5 10

<210> 3226
<211> 8
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<400> 3226
Phe Pro Ala Ala Met Pro His Leu
1 5

<210> 3227
<211> 8
<212> PRT
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<400> 3227
His Pro Phe Ala Met Pro His Leu

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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1 5 10

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1 5

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1 5

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Asn Pro Leu Gly Phe Phe Pro Asp His Gln Ile
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Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ile
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Phe Leu Pro Ser Tyr Phe Pro Ser Ala
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Phe Pro His Cys Leu Ala Phe Ser Ala
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Phe Gln Pro Ser Asp Tyr Phe Pro Ser Val
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Tyr Leu Leu Thr Arg Ile Leu Thr Ile
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Phe Leu Pro Ser Asp Phe Phe Pro Ser
1 5

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1 5

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1 5 10

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1 5 10

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Tyr Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
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Tyr Asn Met Gly Leu Lys Phe Arg Gln Leu
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Asn Met Gly Leu Lys Tyr Arg Gln Leu
1 5

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1 5 10

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Phe Leu Pro Ser Asp Leu Leu Pro Ser Val Arg
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp
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Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
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Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
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Phe Leu Met Ser Tyr Phe Pro Ser Val
1 5

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Phe Leu Pro Ser Tyr Phe Pro Ser Val
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Phe Leu Met Ser Asp Tyr Phe Pro Ser Val
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1 5 10

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Phe Leu Pro Ser Asp Phe Phe Pro Ser Ala
1 5 10

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Phe Leu Pro Asp Asp Phe Phe Pro Ser Val
1 5 10

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1 5 10

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Phe Leu Pro Val Asp Phe Phe Pro Ser Val
1 5 10

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Phe Leu Pro Ala Asp Phe Phe Pro Ser Ile
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1 5 10

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Phe Leu Pro Ser Asp Ala Phe Pro Ser Val
1 5 10

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Phe Leu Pro Ser Ala Phe Phe Pro Ser Val
1 5 10

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Phe Leu Pro Ser Asp Phe Ala Pro Ser Val
1 5 10

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Phe Leu Pro Ser Asp Phe Phe Ala Ser Val
1 5 10

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Phe Leu Pro Ser Asp Phe Phe Pro Ala Val
1 5 10

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Phe Leu Ala Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3407
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Phe Ala Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3408
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Ala Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3409
<211> 10
<212> PRT
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Tyr Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3410
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<212> PRT
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<220>
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<400> 3410
Phe Met Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3411
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Phe Leu Lys Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3412
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<400> 3412
Phe Leu Pro Ser Glu Phe Phe Pro Ser Val
1 5 10

<210> 3413
<211> 10
<212> PRT
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Phe Leu Pro Ser Asp Phe Tyr Pro Ser Val
1 5 10

<210> 3414
<211> 10
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<400> 3414
Phe Leu Pro Ser Asp Phe Phe Lys Ser Val
1 5 10

<210> 3415
<211> 10
<212> PRT
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<220>
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<400> 3415
Phe Leu Pro Ser Asp Phe Phe Pro Lys Val
1 5 10

<210> 3416
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<210> 3417
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<220>
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<223> Xaa = Val-NH2

<400> 3417
Val Leu Glu Tyr Leu Val Ser Phe Gly Xaa
1 5 10

<210> 3418
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<220>
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<222> (17)...(17)
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1 5 10 15
Xaa

<210> 3419
<211> 16
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<220>
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<222> (16)...(16)
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Thr Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10 15

<210> 3420
<211> 15
<212> PRT
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1 5 10 15

<210> 3421
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<222> (14)...(14)
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Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3422
<211> 13
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<223> Xaa = Val-NH2

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Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3423
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<400> 3423
Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3424
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<400> 3424
Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3425
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

<210> 3426
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Leu Pro Ser Asp Phe Phe Pro Ser Xaa

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<210> 3427

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Pro Ser Asp Phe Phe Pro Ser Xaa

1

5

<210> 3428

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Phe Leu Pro Ser Asp Phe Phe Pro Xaa

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5

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<211> 8

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<223> Xaa = Pro-NH2

<400> 3429
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1 5

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1 5

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Ala Leu Pro Ser Asp Phe Phe Pro Ser Xaa
1 5 10

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Ala Gly Pro Leu Glu Glu Glu Leu Pro Arg
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Ala Ile Cys Ser Val Val Arg Arg
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Ala Leu Glu Ser Pro Glu His Cys Ser Pro His
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Cys Gly Tyr Pro Ala Leu Met Pro Leu Tyr
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1 5 10

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Ala Val Asp Leu Tyr His Phe Leu Lys
1 5

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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg
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Ala Tyr Ile Asp Asn Tyr Asn Lys Phe
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Phe Pro Phe Lys Tyr Ala Ala Ala Phe
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Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg
1 5 10

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Tyr Ala Arg Phe Ser Gln Thr Thr Leu Lys Gln Lys Thr
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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Glu Ala Leu Ile His Gln Leu Lys Ile Asn Pro Tyr Val Leu Ser
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Val Thr Pro Arg Thr Pro Pro Pro
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1 5 10

<210> 3492
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3493
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Leu Leu Val Pro Phe Val Gln Trp Phe Val
1 5 10

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1 5

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Phe Leu Leu Thr Arg Ile Leu Thr Ile
1 5

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Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
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<210> 3502

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Leu Leu Ser Ser Asn Leu Ser Trp Leu
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Lys Leu His Leu Tyr Ser His Pro Ile
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Gly Leu Ser Arg Tyr Val Ala Arg Leu
1 5

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Phe Leu Leu Ser Leu Gly Ile His Leu
1 5

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Met Met Trp Thr Trp Gly Pro Ser Leu
1 5

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Tyr Leu His Thr Leu Trp Lys Ala Gly Val
1 5 10

<210> 3511
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Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
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<210> 3512
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Gly Leu Leu Gly Trp Ser Pro Gln Ala
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Ile Leu Arg Gly Thr Ser Phe Val Tyr Val
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Val Leu Gln Ala Gly Phe Phe Leu Leu
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Pro Leu Leu Pro Ile Phe Phe Cys Leu
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Leu Leu Val Leu Gln Ala Gly Phe Phe Leu
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Tyr Leu Val Ser Phe Gly Val Trp Ile
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Gly Leu Ser Pro Thr Val Trp Leu Ser Val
1 5 10

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1 5

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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
1 5 10

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Gly Ser Thr His Val Ser Trp Pro Lys
1 5

<210> 3524
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Phe Val Leu Gly Gly Cys Arg His Lys
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Asn Val Ser Ile Pro Trp Thr His Lys
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Leu Val Val Asp Phe Ser Gln Phe Ser Arg
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Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys
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<400> 3528

Ser Ala Ile Cys Ser Val Val Arg Arg
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<210> 3529

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Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
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Lys Val Gly Asn Phe Thr Gly Leu Tyr
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Phe Pro His Cys Leu Ala Phe Ser Tyr Met
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Leu Pro Val Cys Ala Phe Ser Ser Ala

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Tyr Pro Ala Leu Met Pro Leu Tyr Ala
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Phe Pro His Cys Leu Ala Phe Ser Tyr Met
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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
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Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys
1 5 10

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<400> 3542

Ala Tyr Ile Asp Asn Tyr Asn Lys Phe
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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg
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<400> 3544

Phe Thr Gln Ala Gly Tyr Pro Ala Leu
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Phe Leu Lys Asp Tyr Gln Leu Leu
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Arg Gly Pro Tyr Arg Ala Phe Val Thr Ile
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Ile Pro Gln Ser Leu Asp Ser Tyr Trp Thr Ser Leu
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Tyr Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr
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Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr
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Met Ser Thr Thr Asp Leu Glu Ala Tyr
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Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
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Pro Thr Thr Gly Arg Thr Ser Leu Tyr
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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr
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Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr
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Lys Tyr Thr Ser Phe Pro Trp Leu Leu
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
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Phe Leu Leu Thr Arg Ile Leu Thr Ile
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<210> 3702
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Lys Leu His Leu Tyr Ser His Pro Ile
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Phe Leu Leu Ala Gln Phe Thr Ser Ala
1 5

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Phe Leu Leu Ser Leu Gly Ile His Leu
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<210> 3706

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<400> 3706

His Leu Tyr Ser His Pro Ile Ile Leu
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<210> 3707

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<210> 3708

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Tyr Leu His Thr Leu Trp Lys Ala Gly Val
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<210> 3709

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<400> 3709

Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
1 5 10

<210> 3710

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<400> 3710

Gly Leu Leu Gly Trp Ser Pro Gln Ala
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<210> 3711

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Ile Leu Arg Gly Thr Ser Phe Val Tyr Val
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<210> 3712

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Val Leu Gln Ala Gly Phe Phe Leu Leu
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<210> 3713

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Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
1 5 10

<210> 3714
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Pro Leu Leu Pro Ile Phe Phe Cys Leu
1 5

<210> 3715
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1 5 10

<210> 3716
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Tyr Leu Val Ser Phe Gly Val Trp Ile
1 5

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Gly Leu Ser Pro Thr Val Trp Leu Ser Val
1 5 10

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<400> 3718

Tyr Met Asp Asp Val Val Leu Gly Ala
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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
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Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg
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<210> 3721

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<400> 3721

Gly Ser Thr His Val Ser Trp Pro Lys
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<210> 3722

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<400> 3722

Phe Val Leu Gly Gly Cys Arg His Lys
1 5

<210> 3723

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Asn Val Ser Ile Pro Trp Thr His Lys

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Leu Val Val Asp Phe Ser Gln Phe Ser Arg

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Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys

1

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<400> 3726

Ser Ala Ile Cys Ser Val Val Arg Arg

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<400> 3727

Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys

1

5

10

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Lys Val Gly Asn Phe Thr Gly Leu Tyr
1 5

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Phe Pro His Cys Leu Ala Phe Ser Tyr Met
1 5 10

<210> 3730
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Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5

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1 5

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<400> 3732

His Pro Ala Ala Met Pro His Leu Leu
1 5

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Leu Pro Val Cys Ala Phe Ser Ser Ala
1 5

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Tyr Pro Ala Leu Met Pro Leu Tyr Ala
1 5

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Phe Pro His Cys Leu Ala Phe Ser Tyr
1 5

<210> 3736
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Thr Pro Ala Arg Val Thr Gly Gly Val Phe
1 5 10

<210> 3737
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<400> 3737

Ile	Leu	Leu	Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr
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Leu	Cys	Leu	Ile	Phe	Leu	Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met
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<210> 3739

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<400> 3739

Leu	Val	Leu	Leu	Asp	Tyr	Gln	Gly	Met	Leu	Pro	Val	Cys	Pro	Leu
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Arg	Phe	Ser	Trp	Leu	Ser	Leu	Leu	Val	Pro	Phe	Val	Gln	Trp	Phe
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<210> 3741

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<400> 3741

Leu	Val	Pro	Phe	Val	Gln	Trp	Phe	Val	Gly	Leu	Ser	Pro	Thr	Val
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<210> 3742

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Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser
1 5 10 15

<210> 3743
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<212> PRT
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<220>
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<400> 3743
Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile Asp
1 5 10 15

<210> 3744
<211> 15
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<220>
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<400> 3744
Leu Gly Trp Leu Trp Gly Met Asp Ile Asp Pro Tyr Lys Glu Phe
1 5 10 15

<210> 3745
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Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
1 5 10 15
Met Thr Leu Ala
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<210> 3746
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<400> 3746

Arg	Gln	Leu	Leu	Trp	Phe	His	Ile	Ser	Cys	Leu	Thr	Phe	Gly	Arg
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<400> 3747

Glu	Tyr	Leu	Val	Ser	Phe	Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala
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<210> 3748

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<400> 3748

Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn	Ala
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<210> 3749

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<400> 3749

Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn	Ala	Pro	Ile	Leu	Ser	Thr	Leu
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<400> 3750

Asn	Ala	Pro	Ile	Leu	Ser	Thr	Leu	Pro	Glu	Thr	Thr	Val	Val	Arg
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<400> 3751

Ala	Glu	Asp	Leu	Asn	Leu	Gly	Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp
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<210> 3752

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<400> 3752

Asn	Leu	Asn	Val	Ser	Ile	Pro	Trp	Thr	His	Lys	Val	Gly	Asn	Phe
1				5				10						15

<210> 3753

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Arg	His	Tyr	Leu	His	Thr	Leu	Trp	Lys	Ala	Gly	Ile	Leu	Tyr	Lys
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<210> 3754

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Lys	Phe	Ala	Val	Pro	Asn	Leu	Gln	Ser	Leu	Thr	Asn	Leu	Leu	Ser
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Val	Pro	Asn	Leu	Gln	Ser	Leu	Thr	Asn	Leu	Leu	Ser	Ser	Asn	Leu
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Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
1 5 10 15

<210> 3757
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<400> 3757
Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val
1 5 10 15

<210> 3758
<211> 15
<212> PRT
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<220>
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<400> 3758
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3759
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<400> 3759
Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val
1 5 10 15

<210> 3760
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<400> 3760

Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val Arg Arg Ala
1 5 10 15

<210> 3761

<211> 15

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<400> 3761

Cys Ser Val Val Arg Arg Ala Phe Pro His Cys Leu Ala Phe Ser
1 5 10 15

<210> 3762

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<400> 3762

Arg Arg Ala Phe Pro His Cys Leu Ala Phe Ser Tyr Met Asp Asp
1 5 10 15

<210> 3763

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<400> 3763

Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val
1 5 10 15

<210> 3764

<211> 15

<212> PRT

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<400> 3764

Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala
1 5 10 15

<210> 3765

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<400> 3765

Val	Gly	Leu	Leu	Gly	Phe	Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly	Tyr
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<400> 3766

Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly	Tyr	Pro	Ala	Leu	Met	Pro	Leu
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<210> 3767

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<400> 3767

Gln	Cys	Gly	Tyr	Pro	Ala	Leu	Met	Pro	Leu	Tyr	Ala	Cys	Ile	Gln
1				5					10					15

<210> 3768

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<400> 3768

Leu	Cys	Gln	Val	Phe	Ala	Asp	Ala	Thr	Pro	Thr	Gly	Trp	Gly	Leu
1				5					10					15

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Ser	Val	Val	Leu	Ser	Arg	Lys	Tyr	Thr	Ser	Phe	Pro	Trp	Leu	Leu
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<400> 3770
Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly
1 5 10 15

<210> 3771
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Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu Arg Phe Thr
1 5 10 15

<210> 3773
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Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln
1 5 10 15

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Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu

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<210> 3775
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Val Gly Asn Phe Thr Gly Leu Tyr Ser Ser Thr Val Pro Val Phe
1 5 10 15

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Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys
1 5 10 15

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Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile Gln Ser Lys Gln
1 5 10 15

<210> 3778
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Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys Phe Ala
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Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp
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Pro Leu Gly Phe Phe Pro Asp His Gln Leu Asp Pro
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Ser Pro Glu His
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1 5 10 15

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1 5 10 15

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<400> 3791

Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys Lys Gln
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Leu Arg Pro Val Gly Ala Glu Ser Arg Gly Arg Pro Val Ser Gly
1 5 10 15

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Thr Ile Pro Gln
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<210> 3794

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Val Cys Leu Gly
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Gly Tyr Arg Trp Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile
1 5 10 15
Leu Leu Leu Cys
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<210> 3796

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Pro Gln Ala Met Gln Trp Asn Ser Thr Thr Phe His Gln Thr Leu
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<400> 3797

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Asn Ala Pro Ile
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1 5 10 15

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<400> 3808
Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp
1 5 10 15

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<400> 3809
Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
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Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala
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<210> 3811
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Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
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Asn Ala Pro Ile
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Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
1 5 10 15

<210> 3813
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<400> 3813
Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
1 5 10 15

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Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile
1 5 10 15

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Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val
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Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
1 5 10 15

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Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
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Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
1 5 10 15
Met Thr Leu Ala
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Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
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Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn

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<400> 3821
Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile
1 5 10 15

<210> 3822
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Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

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Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His
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Phe Leu Pro Ser Asp Phe Phe Pro Ser Val
1 5 10

<210> 3825
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<400> 3825

Phe Leu Leu Thr Arg Ile Leu Thr Ile
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<210> 3826

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<400> 3826

Ala Leu Met Pro Leu Tyr Ala Cys Ile
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<210> 3827

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Trp Leu Ser Leu Leu Val Pro Phe Val
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Tyr Met Asp Asp Val Val Leu Gly Val
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Gly Leu Ser Arg Tyr Val Ala Arg Leu
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Leu Leu Pro Ile Phe Phe Cys Leu Trp Val
1 5 10

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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
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Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg
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Asn Val Ser Ile Pro Trp Thr His Lys
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Leu Val Val Asp Phe Ser Gln Phe Ser Arg
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Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys
1 5 10

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Ser Ala Ile Cys Ser Val Val Arg Arg
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<400> 3839

Lys Val Gly Asn Phe Thr Gly Leu Tyr
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Phe Pro His Cys Leu Ala Phe Ser Tyr Met
1 5 10

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<400> 3841

Leu Pro Ser Asp Phe Phe Pro Ser Val
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<400> 3842

Ile Pro Ile Pro Ser Ser Trp Ala Phe
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<400> 3843

His Pro Ala Ala Met Pro His Leu Leu
1 5

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Thr	Pro	Ala	Arg	Val	Thr	Gly	Gly	Val	Phe
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<400> 3846

Asp	Leu	Leu	Asp	Thr	Ala	Ser	Ala	Leu	Tyr
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Leu	Ser	Leu	Asp	Val	Ser	Ala	Ala	Phe	Tyr
1				5					10

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Trp	Met	Met	Trp	Tyr	Trp	Gly	Pro	Ser	Leu	Tyr
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Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
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Ser Trp Leu Ser Leu Leu Val Pro Phe
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Ser Trp Trp Thr Ser Leu Asn Phe Leu
1 5

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Glu Tyr Leu Val Ser Phe Gly Val Trp Ile
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<400> 3853
Ala Tyr Arg Pro Pro Asn Ala Pro Ile
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Trp Phe His Ile Ser Cys Leu Thr Phe
1 5

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Ser Trp Pro Lys Phe Ala Val Pro Asn Leu
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Lys Tyr Thr Ser Phe Pro Trp Leu Leu
1 5

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Leu Tyr Ser His Pro Ile Ile Leu Gly Phe
1 5 10

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Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
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<213> Artificial Sequence

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Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys
1 5 10 15

<213> Artificial Sequence

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Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
1 5 10 15

<213> Artificial Sequence

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Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp
1 5 10 15

<213> Artificial Sequence

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Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
1 5 10 15
Asn Ala Pro Ile
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<210> 3864
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Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile
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Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
1 5 10 15

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<400> 3868

Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
1 5 10 15

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<211> 20

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<400> 3869

Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
1 5 10 15
Met Thr Leu Ala
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<210> 3870

<211> 15

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<400> 3870

Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
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Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
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Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile
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<400> 3873
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3874
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<400> 3874
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 3875
<211> 21
<212> PRT
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<220>
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<400> 3875
Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
1 5 10 15
Asn Val Val Asn Ser
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<210> 3876
<211> 16
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<400> 3876

Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
1 5 10 15

<210> 3877

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<223> Met, Phe, Leu, Ile, Val, Trp, or Tyr

<220>

<221> VARIANT

<222> (5)..(5)

<223> May be any amino acid

<220>

<221> VARIANT

<222> (6)..(6)

<223> Ile, Val, Met, Ser, Ala, Cys, Thr, Pro, or Leu

<220>

<221> VARIANT

<222> (8)..(8)

<223> May be any amino acid

<220>

<221> VARIANT

<222> (9)..(9)

<223> Ile or Val

<400> 3878

Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa
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<210> 3879

<211> 9

<212> PRT
<213> Artificial Sequence
)
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<220>
<221> VARIANT
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<223> May be any amino acid

<220>
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<222> (3)..(3)
<223> May be any amino acid

<220>
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<223> May be any amino acid

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<223> Gly, Arg, or Asp

<400> 3879
Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly
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